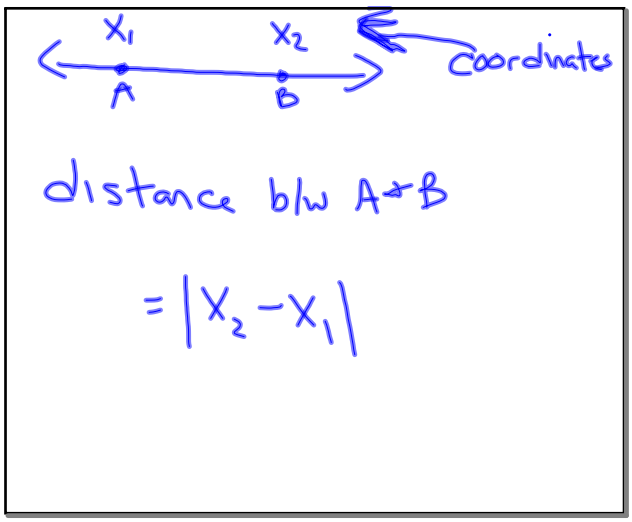
1.2 Use Segments and Congruence

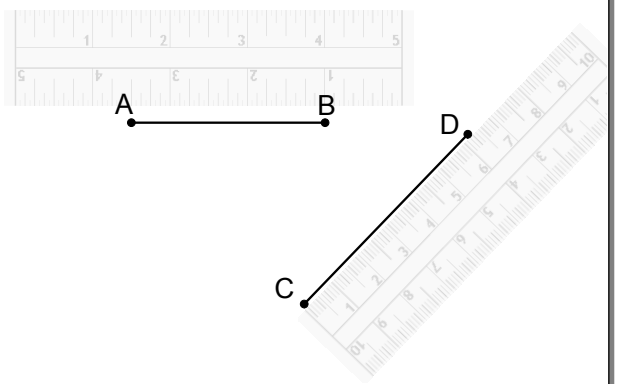
postulate or axiom-a rule that is accepted without proof

Postulate 1--Ruler Postulate--the points on a line can be matched one-to-one with the real numbers.

Sep 17-7:21 AM



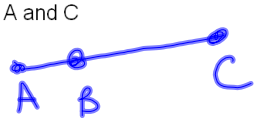
Sep 10-8:43 AM



Sep 17-7:25 AM

When three points are collinear, then you can say that one point is between the other two.

B is between A and C

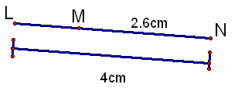


E is NOT between D and F

Sep 17-7:22 AM

Postulate 2--The Segment Addition Postulate--If B is between A and C, then AB + BC = AC.
If AB + BC = AC, then B is between A and C.

Jun 20-7:27 AM



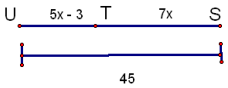
LM = 1.4 cm

4 - 2.6

Find ST if T is between U and S and UT = 5x - 3 and ST = 7x

5x - 3 + 7x = 45

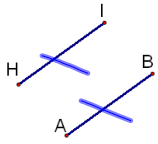
x = 4



ST = 28 units

Sep 16-9:48 AM

Congruent Segments--segments that have the same length



lengths are =

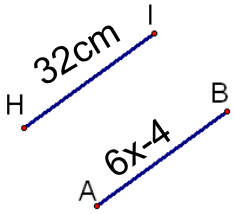
HI = AB

segments are ≅

$\overline{HI} \cong \overline{AB}$

Sep 17-7:23 AM

HI = AB



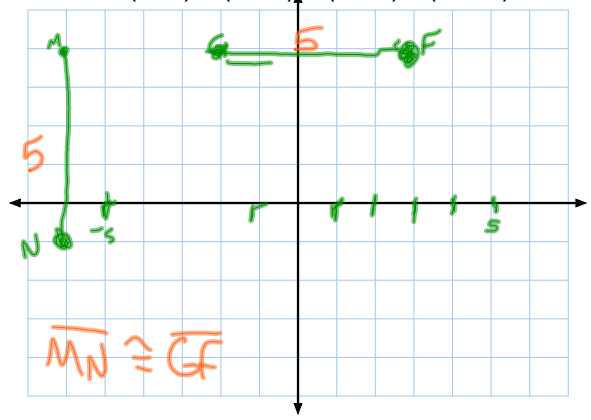
x = ?

x = 6

6x - 4 = 32

Sep 16-9:54 AM

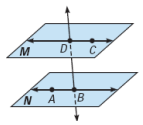
Plot F(3, 4) G(-2, 4) M(-6, 4) N(-6, -1)



Jun 20-7:35 AM

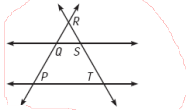
Decide whether the statement is *true* or *false*.

2. $\overleftrightarrow{BD}$ and $\overleftrightarrow{DC}$ intersect at point D.
3. $\overleftrightarrow{AB}$ and $\overleftrightarrow{BD}$ intersect at point A.
4. $\overleftrightarrow{BD}$ intersects plane M at point B.
5. $\overleftrightarrow{AB}$ and $\overleftrightarrow{DC}$ do not appear to intersect.
6. $\overleftrightarrow{BD}$ is the intersection of planes M and N.



Naming Intersections of Lines In Exercises 10–15, use the diagram at the right.

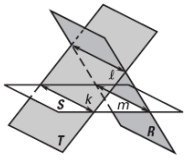
10. Name the intersection of $\overleftrightarrow{PQ}$ and $\overleftrightarrow{TS}$.
11. Name the intersection of $\overleftrightarrow{QS}$ and $\overleftrightarrow{PT}$.
12. Name the intersection of $\overleftrightarrow{SQ}$ and $\overleftrightarrow{TR}$.
13. Name the intersection of $\overleftrightarrow{RS}$ and $\overleftrightarrow{PT}$.
14. Name the intersection of $\overleftrightarrow{RP}$ and $\overleftrightarrow{PT}$.
15. Name the intersection of $\overleftrightarrow{RS}$ and $\overleftrightarrow{ST}$



Sep 15-9:52 AM

Use the diagram at the right.

5. Name the intersection of planes S and T.
6. Name the intersection of planes T and R.
7. Name the intersection of planes R and S.

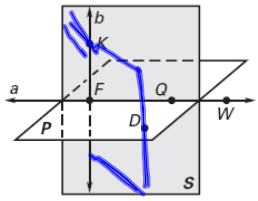


Sep 15-9:56 AM

For use after Lesson 1.3, pages 14–20

Use the diagram at the right.

1. Name the points on plane S.
2. Name two lines.
3. Name the plane that contains point D.
4. Name three collinear points.
5. Decide whether the following statement is *true* or *false*. Points K, F, and D are coplanar.



Sep 15-7:20 AM

HW
p12-13
#s 6-11,13,14,27-30

Jun 20-7:42 AM